1194.22(j): Flicker Rate

Definition

- Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.

Flicker Rate

- Some individuals with photosensitive epilepsy can have a seizure triggered by displays that flicker, flash, or blink, particularly if the flash has a high intensity and is within certain frequency ranges

Flicker Rate (cont)

- Individuals that may be stressed, fatigued, or depressed may have a seizure triggered by displays that flicker, flash, or blink, particularly if the flash has a high intensity and is within certain frequency ranges

Flicker Rate (cont)

- Example of reaction to flicker
  - The old green screen monitors with the slow refresh rate caused the screen to flicker. This caused some people to have severe headaches and migraines.

Flicker Rate (cont)

- What are the elements that cause this?
  - Animated gifs
  - Applets
  - Objects
  - Marquee
  - Blink
  - Third party plug-ins
  - Applications

Flicker Rate (cont)

- Solution:
  - Avoid elements that cause flashing or flickering